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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/583,999	06/22/2006	Kazumitsu Shiomi	0425-1258PUS1	3390
2292 7590 08/10/2011 BIRCH STEWART KOLASCH & BIRCH PO BOX 747 FALLS CHARCH, VA 22040 0747			EXAMINER	
			MCKENZIE, THOMAS	
FALLS CHURCH, VA 22040-0747			ART UNIT	PAPER NUMBER
			1776	
			NOTIFICATION DATE	DELIVERY MODE
			08/10/2011	ELECTRONIC

# Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	
	10/583,999	SHIOMI ET AL.	
Office Action Summary	Examiner	Art Unit	
	THOMAS MCKENZIE	1776	
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence ad	idress
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION  36(a). In no event, however, may a reply be time  will apply and will expire SIX (6) MONTHS from  cause the application to become ABANDONEI	I. ely filed the mailing date of this c (35 U.S.C. § 133).	
Status			
1) ☐ Responsive to communication(s) filed on <u>28 Jules</u> 2a) ☐ This action is <b>FINAL</b> . 2b) ☐ This 3) ☐ Since this application is in condition for allowant closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro		e merits is
Disposition of Claims			
<ul> <li>4) ☐ Claim(s) 1-8 is/are pending in the application.</li> <li>4a) Of the above claim(s) 2-6 is/are withdrawn f</li> <li>5) ☐ Claim(s) is/are allowed.</li> <li>6) ☐ Claim(s) 1,7 and 8 is/are rejected.</li> <li>7) ☐ Claim(s) is/are objected to.</li> <li>8) ☐ Claim(s) are subject to restriction and/or</li> </ul>			
Application Papers			
9) The specification is objected to by the Examiner  10) The drawing(s) filed on is/are: a) access  Applicant may not request that any objection to the off  Replacement drawing sheet(s) including the correction  11) The oath or declaration is objected to by the Examiner	epted or b) $\square$ objected to by the Edrawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 Cl	` ,
Priority under 35 U.S.C. § 119			
<ul> <li>12) Acknowledgment is made of a claim for foreign</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents</li> <li>2. Certified copies of the priority documents</li> <li>3. Copies of the certified copies of the prior application from the International Bureau</li> <li>* See the attached detailed Office action for a list of</li> </ul>	s have been received. s have been received in Application ity documents have been receive (PCT Rule 17.2(a)).	on No ed in this National	Stage
Attachment(s)  1) Notice of References Cited (PTO-892)	4) 🔲 Interview Summary		
Notice of Draftsperson's Patent Drawing Review (PTO-948)     Information Disclosure Statement(s) (PTO/SB/08)     Paper No(s)/Mail Date	Paper No(s)/Mail Da 5)  Notice of Informal P 6) Other:		

Art Unit: 1776

#### **DETAILED ACTION**

## Specification

1. The abstract of the disclosure is objected to because the abstract contains two paragraphs. Please consolidate these into a single paragraph. Correction is required. See MPEP § 608.01(b).

### Response to Arguments

2. Applicant's arguments with respect to **claims 1, 7 and 8** have been considered but are most in view of the new ground(s) of rejection.

#### Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
  - 1. Determining the scope and contents of the prior art.
  - 2. Ascertaining the differences between the prior art and the claims at issue.
  - 3. Resolving the level of ordinary skill in the pertinent art.
  - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 5. **Claims 1, 7 and 8** are rejected under 35 U.S.C. 103(a) as being unpatentable over Jordan et al., US 5,779,267 (Jordan) in view of Koyama, JP-A No. No. 2001-171472 (Koyama).

Art Unit: 1776

6. Regarding **claim 1**, Jordan substantially teaches:

- 7. A filter for a gas generator (figure 1, part 90; column 4, lines 23-29) comprising:
- 8. a knitted metal wire mat (column 4, lines 23-29) containing a coating layer of copper (column 4, lines 55-60),
- 9. wherein the thickness of the coating layer on the metal wire is from 0.0003-0.015 inches (7.62-381 microns) (column 5, lines 14-19) which substantially reads on 0.5-10 microns as claimed.
- 10. While Jordan does not explicitly teach the knitted metal wire mat is comprised of a single metal wire being wound into a tubular shape having intersecting parts of the single metal wire, Jordan generally teaches using knitted metal wire structures, without being limited to a method of manufacture (column 4, lines 23-29). Jordan also teaches the copper coating is applied prior to knitting (column 4, lines 54-55).
- 11. In an analogous art of gas generator filters, Koyama substantially teaches a knitted, iron wire, mesh filter element formed from a single wire wound into a tubular shape and having intersecting parts of the single metal wire (paragraphs 9 and 11). It would have been obvious to one of ordinary skill in the art at the time of the invention to use such a knitted mesh with Jordan in order to simplify the manufacturing process (Koyama, paragraph 7). Please note that with this combination, the intersecting parts of Koyama (i.e. Drawing 2, part 20) would be firmly fixed via the coating layer (Jordan, column 4, lines 55-60) since the coating layer in Jordan is applied prior to knitting (column 4, lines 54-55).

Application/Control Number: 10/583,999

Art Unit: 1776

12. Additionally, please note that the Koyama reference cited is interpreted from a machine translation obtained from the JPO website. The detailed description and drawings of this reference are attached for the Applicant's convenience.

Page 4

- 13. Regarding **claim 7**, Jordan substantially teaches:
- 14. A gas generator for an air bag (figure 1, part 10; column 3, lines 17-20), comprising a housing having a gas discharge port (figure 1, parts 30 and 40; column 3, lines 25-26), an ignition means actuated by an impact (figure 1, part 56; column 3, line 31), a combustion chamber storing a gas generating agent that is ignited and burned by the ignition means to generate a combustion gas (figure 1, parts 45 and 62; column 3, lines 33-35 and lines 44-46), and a filter for filtering and cooling a combustion gas figure 1, part 90; column 3, lines 55-60), wherein the filter for a gas generator according to claim 1 is used.
- 15. Regarding **claim 8**, Koyama substantially teaches:
- 16. the tubular shape is obtained by winding the single wire on a perimeter of a cylindrical core material (paragraph 13). Please note, however, that the Examiner does not give this limitation weight since this limitation is directed to a method of manufacturing an apparatus rather than the structure of an apparatus.
- 17. The cited prior art teaches all of the positively recited structure of the claimed apparatus or product. The determination of patentability is based upon the apparatus structure itself. The patentability of a product or apparatus does not depend on its method of production or formation. If the product in the product-by-process claim is the same as or obvious from a product of the prior art, the claim is unpatentable even

Art Unit: 1776

though the prior product was made by a different process. See *In re Thorpe*, 777 F.2d 695, 698, 227 USPQ 964, 966 (Fed. Cir. 1985) (see MPEP § 2113).

#### Conclusion

- 18. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. US 5,645,296; 4,858,691; 2011/0181030; 2007/0193235; 2006/0157961; 2006/0151978; 2006/008456.
- 19. Any inquiry concerning this communication or earlier communications from the examiner should be directed to THOMAS MCKENZIE whose telephone number is (571)270-5327. The examiner can normally be reached on Monday-Thursday 7AM-5PM.
- 20. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Duane Smith can be reached on 571-272-1166. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.
- 21. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Art Unit: 1776

/THOMAS MCKENZIE/ Examiner, Art Unit 1776 /Duane Smith/ Supervisory Patent Examiner, Art Unit 1776

TBM